

ABSTRACT

5 A control device detects whether or not an up-converter fails, based on a DC voltage from a voltage sensor, an output voltage from a voltage sensor, and a duty ratio in controlling switching of NPN transistors. If a failure in the up-converter is detected, the control device then controls an inverter and an AC motor such that regenerative electric power generation in the AC motor is prohibited.

537,262

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



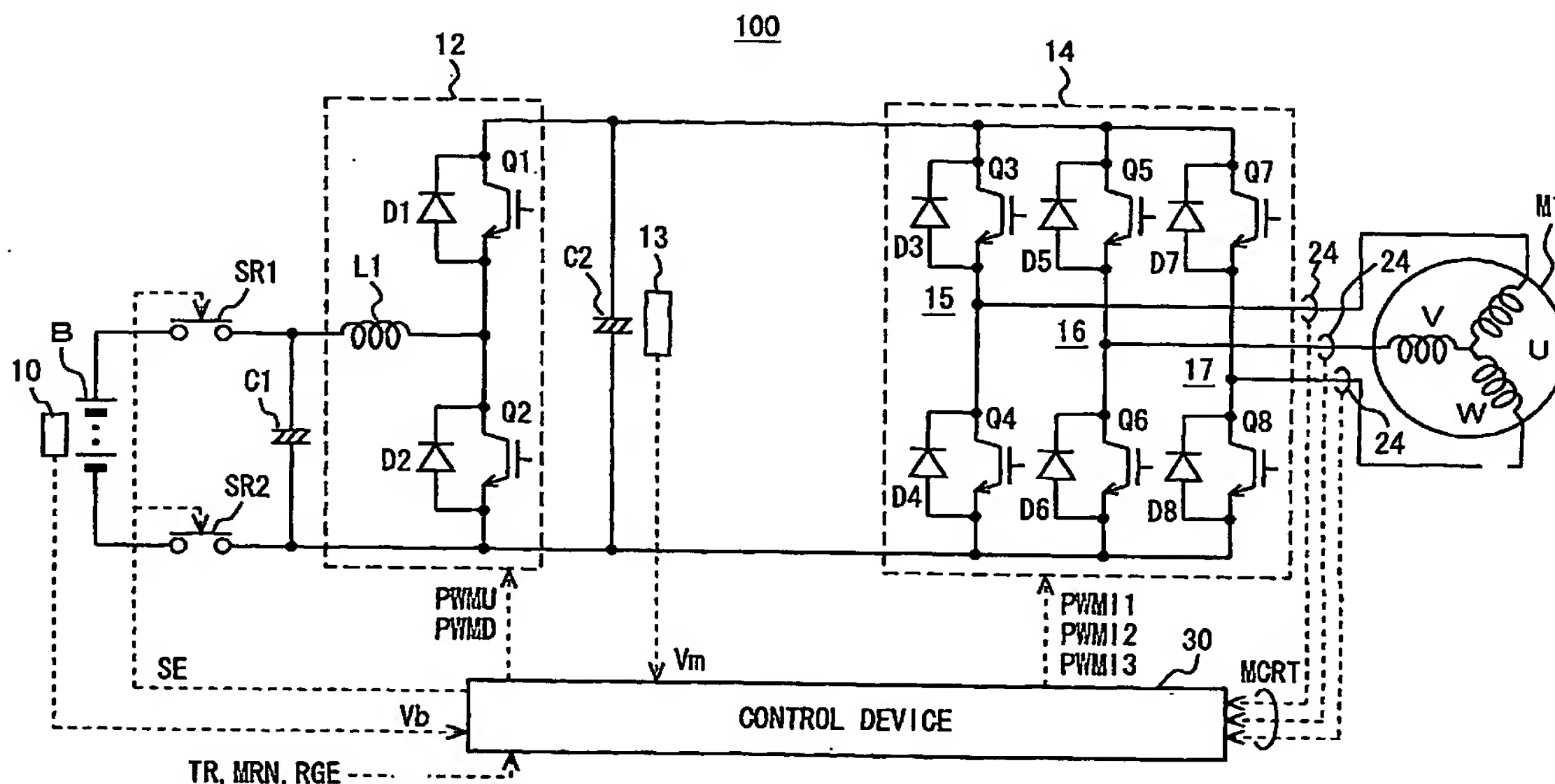
(43) International Publication Date
29 July 2004 (29.07.2004)

PCT

(10) International Publication Number
WO 2004/064235 A2

- (51) International Patent Classification⁷: **H02M 3/00** **TOYOTA JIDOSHA KABUSHIKI KAISHA**, 1, Toyota-cho, Toyota-shi, Aichi 471-8571 (JP).
- (21) International Application Number: PCT/JP2003/014949
- (22) International Filing Date: 21 November 2003 (21.11.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 2003-004220 10 January 2003 (10.01.2003) JP
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- (81) Designated States (national): CN, KR, US.
- (84) Designated States (regional): European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).
- Published:
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: VOLTAGE CONVERTING DEVICE, COMPUTER READABLE RECORDING MEDIUM WITH PROGRAM RECORDED THEREON FOR CAUSING COMPUTER TO EXECUTE FAILURE PROCESSING, AND FAILURE PROCESSING METHOD



(57) Abstract: A control device (30) detects whether or not an up-converter (12) fails, based on a DC voltage (Vb) from a voltage sensor (10), an output voltage (Vm) from a voltage sensor (13), and a duty ratio in controlling switching of NPN transistors (Q1, Q2). If a failure in the up-converter (12) is detected, the control device (30) then controls an inverter (14) and an AC motor (M1) such that regenerative electric power generation in the AC motor (M1) is prohibited.

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